

New synthetic approach to phosphonium salts derived from 4,5-bis(diphenylphosphino)-1-phenylpyridazin-6-one and quantum-chemical calculations of their formation

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Abstract

4,5-Bis(diphenylphosphino)-1-phenylpyridazin-6-one reacts with ethyl iodide, 1,2-dichloroethane, 1,2-dibromomethane, and o-dibromobenzene to give the corresponding bis-phosphonium salts which, depending on the halogen derivative, can undergo further transformations involving cleavage of the P - C bond in the β -position with respect to the carbonyl group.

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